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Melody Y. Ivory, Marti A Hearst
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

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Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

2 An architecture for WWW-based hypercode environments
Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering**

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3 Formal verification of standards for distance vector routing protocols
Karthikeyan Bhargavan, Davor Obradovi c, Carl A. Gunter
July 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 4

Full text available: pdf(350.56 KB) Additional Information: full citation, abstract, references, citings, index terms

We show how to use an interactive theorem prover, HOL, together with a model checker, SPIN, to prove key properties of distance vector routing protocols. We do three case studies: correctness of the RIP standard, a sharp real-time bound on RIP stability, and preservation of loop-freedom in AODV, a distance vector protocol for wireless networks. We develop verification techniques suited to routing protocols generally. These case studies show significant benefits from automated support in reduced ...

Keywords: AODV, Formal verification, HOL, RIP, SPIN, distance vector routing, interactive theorem proving, model checking, network standards, routing protocols